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June 30, 2021

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Executive Director
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, SC 29210

Re: Duke Energy Progress, LLC- Monthly Fuel Report
Docket Number: 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of May 2021.

Sincerely,

Katie M. Brown

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff
Ms. Nanette Edwards, Office of Regulatory Staff
Mr. Jeff Nelson, Office of Regulatory Staff
Mr. Michael Seaman-Huynh, Office of Regulatory Staff
Mr. Ryder Thompson, Office of Regulatory Staff

Schedule 1

DUKE ENERGY PROGRESS
SUMMARY OF MONTHLY FUEL REPORT

Line No.	Item	MAY 2021
1	Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 128,001,695
	MWH sales:	
2	Total System Sales	4,560,677
3	Less intersystem sales	<u>278,580</u>
4	Total sales less intersystem sales	<u>4,282,097</u>
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	<u>2.9892</u>
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	<u>2.2253</u>
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	455,872
8	Oil	3,379
9	Natural Gas - Combustion Turbine	80,611
10	Natural Gas - Combined Cycle	1,315,752
11	Biogas	<u>2,178</u>
12	Total Fossil	<u>1,857,791</u>
13	Nuclear	2,049,554
14	Hydro - Conventional	63,273
15	Solar Distributed Generation	27,013
16	Total MWH generation	<u>3,997,631</u>

Note: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description	MAY 2021
Fuel and Fuel-Related Costs:	
Steam Generation - Account 501	
0501110 coal consumed - steam	\$ 21,176,873
0501310 fuel oil consumed - steam	877,065
Total Steam Generation - Account 501	<u>22,053,938</u>
Nuclear Generation - Account 518	
0518100 burnup of owned fuel	12,131,722
Other Generation - Account 547	
0547000 natural gas consumed - Combustion Turbine	6,048,304
0547000 natural gas capacity - Combustion Turbine	1,546,799
0547000 natural gas consumed - Combined Cycle	23,149,603
0547000 natural gas capacity - Combined Cycle	11,326,920
0547106 biogas consumed - Combined Cycle	101,208
0547200 fuel oil consumed	107,591
Total Other Generation - Account 547	<u>42,280,425</u>
Purchased Power and Net Interchange - Account 555	
Fuel and fuel-related component of purchased power	48,511,907
Fuel and fuel-related component of DERP purchases	158,582
PURPA purchased power capacity	7,701,937
DERP purchased power capacity	37,126
Total Purchased Power and Net Interchange - Account 555	<u>56,409,552</u>
Less:	
Fuel and fuel-related costs recovered through intersystem sales	6,054,147
Solar Integration Charge	(23)
Miscellaneous Fees Collected	-
Total Fuel Credits - Accounts 447/456	<u>6,054,124</u>
Total Costs Included in Base Fuel Component	\$ 126,821,513
Environmental Costs	
0509030, 0509212, 0557451 emission allowance expense	\$ 133
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense	1,246,689
Emission Allowance Gains	-
Less reagents expense recovered through intersystem sales - Account 447	50,393
Less emissions expense recovered through intersystem sales - Account 447	<u>16,247</u>
Total Costs Included in Environmental Component	1,180,182
Fuel and Fuel-related Costs excluding DERP incremental costs	<u>\$ 128,001,695</u>
DERP Incremental Costs	304,327
Total Fuel and Fuel-related Costs	<u>\$ 128,306,022</u>

Notes:

Detail amounts may not add to totals shown due to rounding.
DERP details are presented on Page 2.

DUKE ENERGY PROGRESS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description	MAY 2021
DERP Avoided Costs (Total Capacity and Energy)	
Purchased Power Agreements	\$ 18,275
Shared Solar Program	1,184
Total DERP Avoided Costs	\$ 19,459
 DERP Incremental Costs	
Purchased Power Agreements	1,311
DERP NEM Incentive	179,328
Solar Rebate Program - Amortization	51,401
Solar Rebate Program - Carrying Costs	39,469
Shared Solar Program	6,553
NEM Avoided Capacity Costs	421
NEM Meter Costs	11,308
General and Administrative Expenses	14,505
Interest on under-collection due to cap	31
Total DERP Incremental Costs	\$ 304,327

Notes:

Detail amounts may not add to totals shown due to rounding.
All amounts represent SC retail.

**DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA**

Schedule 3, Purchases
Page 1 of 2

MAY 2021

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	\$	\$	mWh	Fuel \$	Non-fuel \$
DE Carolinas - Reliability	\$ 610,560	-	11,205	\$ 610,560	-
Broad River Energy, LLC	2,464,346	\$ 1,742,994	13,699	721,352	-
City of Fayetteville	320,030	299,750	-	20,280	-
DE Carolinas - Native Load Transfer	5,865,714	-	263,513	5,863,440	\$ 2,274
DE Carolinas - Native Load Transfer Benefit	692,791	-	-	692,791	-
Haywood EMC	28,000	28,000	-	-	-
NCEMC	1,613,947	1,162,270	10,359	451,677	-
PJM Interconnection, LLC	(9,649)	-	-	(9,649)	-
Southern Company Services	6,812,043	1,547,217	155,182	5,264,826	-
Energy Imbalance	9,044	-	370	8,475	569
Generation Imbalance	1,256	-	80	805	451
	\$ 18,408,082	\$ 4,780,231	454,408	\$ 13,624,557	\$ 3,294
Act 236 PURPA Purchases					
DERP Qualifying Facilities	\$ 197,345	-	4,961	\$ 197,345	-
Other Qualifying Facilities	26,405,040	-	481,991	26,405,040	-
Renewable Energy	16,051,006	-	262,570	16,051,006	-
Competitive Procurement Renewable Energy	133,240	-	6,041	133,240	-
	\$ 42,786,631	-	755,563	\$ 42,786,631	-
Total Purchased Power	\$ 61,194,713	\$ 4,780,231	1,209,971	\$ 56,411,188	\$ 3,294

NOTE: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA**

Schedule 3, Sales
Page 2 of 2

MAY 2021

Sales	Total \$	Capacity \$	mWh	Non-capacity Fuel \$	Non-fuel \$
Utilities:					
DE Carolinas - As Available Capacity	\$ 11,238	\$ 11,238	-	-	-
Market Based:					
NCEMC Purchase Power Agreement	1,011,921	652,500	10,775	\$ 245,813	\$ 113,608
PJM Interconnection, LLC	4,518	-	525	10,026	(5,508)
Other:					
DE Carolinas - Native Load Transfer	5,743,346	-	267,250	5,396,294	347,052
DE Carolinas - Native Load Transfer Benefit	468,654	-	-	468,654	-
Generation Imbalance	(6)	-	30	-	(6)
Total Intersystem Sales	\$ 7,239,671	\$ 663,738	278,580	\$ 6,120,787	\$ 455,146

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

**Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
MAY 2021**

**Schedule 4
Page 1 of 3**

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					4,282,097,186
2	DERP Net Metered kWh generation	Input					2,675,401
3	Adjusted System kWh sales	L1 + L2					4,284,772,587
4	Actual S.C. Retail kWh sales	Input	119,584,141	18,221,514	281,802,861	6,146,278	425,754,794
5	DERP Net Metered kWh generation	Input	1,482,876	34,899	1,157,626		2,675,401
6	Adjusted S.C. Retail kWh sales	L4 + L5	121,067,017	18,256,413	282,960,487	6,146,278	428,430,195
7	Actual S.C. Demand units (kw)	L32 / 31b * 100			615,683		
Base fuel component of recovery - non-capacity							
8	Incurred System base fuel - non-capacity expense	Input					\$106,050,150
9	Eliminate avoided fuel benefit of S.C. net metering	Input					\$60,529
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					\$106,110,679
11	Adjusted Incurred System base fuel - non-capacity rate (\$/kWh)	L10 / L3 * 100					2.476
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	\$2,998,176	\$452,113	\$7,007,403	\$152,210	\$10,609,902
13	Assign 100 % of Avoided Fuel Benefit of S.C. net metering	Input	(\$27,676)	(\$3,828)	(\$29,024)	\$0	(\$60,529)
14	S.C. Retail portion of incurred system expense	L12 + L13	\$2,970,500	\$448,285	\$6,978,379	\$152,210	\$10,549,373
15	Billed base fuel - non-capacity rate (\$/kWh) - Note 1	Input	1.887	1.887	1.887	1.887	1.887
16	Billed base fuel - non-capacity revenue	L4 * L15 / 100	\$2,256,454	\$343,840	\$5,317,620	\$115,980	\$8,033,894
17	DERP NEM incentive - fuel component	Input	\$2,504	\$346	\$2,626	\$0	\$5,476
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	\$2,258,958	\$344,186	\$5,320,246	\$115,980	\$8,039,370
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L14 - L18	\$711,542	\$104,099	\$1,658,133	\$36,230	\$2,510,004
20	Adjustment	Input					
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	\$711,542	\$104,099	\$1,658,133	\$36,230	\$2,510,004
Base fuel component of recovery - capacity							
22a	Incurred base fuel - capacity rates by class (\$/kWh)	L23 / L4 * 100	0.782	0.710			
22b	Incurred base fuel - capacity rate (\$/kW)	L23 / L7 * 100			159		
23	Incurred S.C. base fuel - capacity expense	Input	\$935,411	\$129,388	\$980,971		\$2,045,770
24a	Billed base fuel - capacity rates by class (\$/kWh) - Note 2	Input	0.528	0.358			
24b	Billed base fuel - capacity rate (\$/kW)	Input			108		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 / 100	\$631,474	\$65,233	\$664,939	\$0	\$1,361,646
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L23 - L25	\$303,937	\$64,155	\$316,032	\$0	\$684,124
27	Adjustment	Input					
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	\$303,937	\$64,155	\$316,032	\$0	\$684,124
Environmental component of recovery							
29a	Incurred environmental rates by class (\$/kWh)	L30 / L4 * 100	0.045	0.041			
29b	Incurred environmental rate (\$/kW)	L30 / L7 * 100			9		
30	Incurred S.C. environmental expense	Input	\$53,653	\$7,421	\$56,267		\$117,341
31a	Billed environmental rates by class (\$/kWh) - Note 3	Input	0.021	0.012			
31b	Billed environmental rate (\$/kW)	Input			6		
32	Billed S.C. environmental revenue	L31a * L4 / 100	\$24,927	\$2,187	\$36,941		\$64,055
33	S.C. environmental (over)/under recovery [See footnote]	L30 - L32	\$28,726	\$5,234	\$19,326	\$0	\$53,286
34	Adjustment	Input					
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	\$28,726	\$5,234	\$19,326	\$0	\$53,286
Distributed Energy Resource Program component of recovery: avoided costs							
36a	Incurred S.C. DERP avoided cost rates by class (\$/kWh)	L37 / L4 * 100	0.007	0.007			
36b	Incurred S.C. DERP avoided cost rates by class (\$/kW)	L37 / L7 * 100			2		
37	Incurred S.C. DERP avoided cost expense	Input	\$8,897	\$1,231	\$9,331		\$19,459
38a	Billed S.C. DERP avoided cost rates by class (\$/kWh) - Note 4	Input	0.002	0.001			
38b	Billed S.C. DERP avoided cost rates by class (\$/kW)	Input			2		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 / 100	\$2,374	\$182	\$12,314		\$14,870
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L37 - L39	\$6,523	\$1,049	(\$2,983)	\$0	\$4,589
41	Adjustment	Input					
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	\$6,523	\$1,049	(\$2,983)	\$0	\$4,589
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	\$1,050,728	\$174,537	\$1,990,508	\$36,230	\$3,252,003

**Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
MAY 2021**

**Schedule 4
Page 2 of 3**

Cumulative (over) / under recovery -

BASE FUEL NON-CAPACITY

Balance ending February 2021

March 2021 - actual

April 2021 - actual

May 2021 - actual

June 2021 - forecast

July 2021 - forecast

August 2021 - forecast

September 2021 - forecast

October 2021 - forecast

November 2021 - forecast

December 2021 - forecast

January 2022 - forecast

February 2022 - forecast

March 2022 - forecast

April 2022 - forecast

May 2022 - forecast

June 2022 - forecast

Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
\$10,892,003					
10,684,199	(89,214)	(9,718)	(106,292)	(2,580)	(\$207,804)
10,033,278	(193,518)	(28,845)	(420,114)	(8,444)	(650,921)
12,543,282	711,542	104,099	1,658,133	36,230	2,510,004
12,417,673	(42,460)	(5,496)	(75,841)	(1,812)	(125,609)
12,311,246	(37,515)	(4,557)	(62,873)	(1,482)	(106,427)
11,832,515	(167,793)	(20,547)	(283,722)	(6,669)	(478,731)
10,555,385	(443,739)	(55,077)	(760,303)	(18,011)	(1,277,130)
8,409,797	(647,256)	(99,056)	(1,366,754)	(32,522)	(2,145,588)
7,223,705	(361,754)	(54,473)	(751,806)	(18,059)	(1,186,092)
6,621,134	(222,566)	(25,132)	(346,559)	(8,314)	(602,571)
7,013,298	159,411	15,390	212,283	5,080	392,164
6,608,470	(167,326)	(15,692)	(216,637)	(5,173)	(404,828)
5,640,143	(363,834)	(39,964)	(551,364)	(13,165)	(968,327)
3,964,462	(529,523)	(75,811)	(1,045,401)	(24,946)	(1,675,681)
3,129,248	(250,555)	(38,682)	(533,251)	(12,726)	(835,214)
\$2,893,210	(79,567)	(10,344)	(142,742)	(3,385)	(\$236,038)

Cumulative (over) / under recovery -

BASE FUEL CAPACITY

Balance ending February 2021

March 2021 - actual

April 2021 - actual

May 2021 - actual

June 2021 - forecast

July 2021 - forecast

August 2021 - forecast

September 2021 - forecast

October 2021 - forecast

November 2021 - forecast

December 2021 - forecast

January 2022 - forecast

February 2022 - forecast

March 2022 - forecast

April 2022 - forecast

May 2022 - forecast

June 2022 - forecast

Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
\$5,044,753					
5,042,812	(143,103)	39,099	102,063	0	(\$1,941)
5,585,129	186,048	61,096	295,173	0	542,317
6,269,253	303,937	64,155	316,032	0	684,124
6,288,014	(125,795)	29,795	114,761	0	18,761
5,599,350	(200,367)	(41,994)	(446,303)	0	(688,664)
4,887,612	(208,260)	(44,563)	(458,915)	0	(711,738)
4,338,364	(140,523)	(35,726)	(372,999)	0	(549,248)
4,022,388	107,935	(24,463)	(399,448)	0	(315,976)
3,818,765	109,937	(19,117)	(294,443)	0	(203,623)
3,165,115	(187,591)	(28,902)	(437,157)	0	(653,650)
2,303,251	(414,192)	(38,137)	(409,535)	0	(861,864)
1,514,423	(404,655)	(32,179)	(351,994)	0	(788,828)
1,186,054	(104,152)	(13,752)	(210,465)	0	(328,369)
1,069,110	141,531	(10,813)	(247,662)	0	(116,944)
1,039,035	179,900	(12,579)	(197,396)	0	(30,075)
\$798,522	(14,741)	(22,970)	(202,802)	0	(\$240,513)

Cumulative (over) / under recovery -

ENVIRONMENTAL

Balance ending February 2021

March 2021 - actual

April 2021 - actual

May 2021 - actual

June 2021 - forecast

July 2021 - forecast

August 2021 - forecast

September 2021 - forecast

October 2021 - forecast

November 2021 - forecast

December 2021 - forecast

January 2022 - forecast

February 2022 - forecast

March 2022 - forecast

April 2022 - forecast

May 2022 - forecast

June 2022 - forecast

Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
(\$348,874)					
(370,923)	(10,494)	1,297	(12,852)	0	(\$22,049)
(417,815)	(19,133)	(856)	(26,903)	0	(46,892)
(364,529)	28,726	5,234	19,326	0	53,286
(374,012)	(4,565)	1,766	(6,684)	0	(9,483)
(276,992)	55,543	5,160	36,317	0	97,020
(203,994)	44,739	3,598	24,661	0	72,998
(201,692)	11,439	(8,326)	(8,326)	0	2,302
(243,375)	(6,768)	(3,481)	(31,434)	0	(41,683)
(265,017)	681	(2,201)	(20,122)	0	(21,642)
(209,192)	35,741	2,943	17,141	0	55,825
(3,423)	102,362	12,362	91,045	0	205,769
168,073	86,395	10,192	74,909	0	171,496
153,869	2,343	(1,658)	(14,889)	0	(14,204)
123,536	(3,028)	(2,735)	(24,570)	0	(30,333)
97,871	(1,411)	(2,568)	(21,686)	0	(25,665)
\$124,824	21,526	671	4,756	0	\$26,953

Cumulative (over) / under recovery -

DERP AVOIDED COSTS

Balance ending February 2021

March 2021 - actual

April 2021 - actual

May 2021 - actual

June 2021 - forecast

July 2021 - forecast

August 2021 - forecast

September 2021 - forecast

October 2021 - forecast

November 2021 - forecast

December 2021 - forecast

January 2022 - forecast

February 2022 - forecast

March 2022 - forecast

April 2022 - forecast

May 2022 - forecast

June 2022 - forecast

Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
(\$19,309)					
(30,648)	(799)	179	(10,719)	0	(\$11,339)
(32,187)	3,561	690	(5,790)	0	(1,539)
(27,598)	6,523	1,049	(2,983)	0	4,589
(31,334)	2,741	641	(7,118)	0	(3,736)
(33,164)	(115)	(178)	(1,537)	0	(1,830)
(35,556)	(355)	(222)	(1,815)	0	(2,392)
(38,073)	(453)	(233)	(1,831)	0	(2,517)
(39,460)	975	(182)	(2,180)	0	(1,387)
(41,673)	282	(239)	(2,256)	0	(2,213)
(47,419)	(1,928)	(344)	(3,474)	0	(5,746)
(53,932)	(3,123)	(367)	(3,023)	0	(6,513)
(59,464)	(2,828)	(297)	(2,407)	0	(5,532)
(60,885)	(368)	(105)	(948)	0	(1,421)
(59,085)	2,064	31	(295)	0	1,800
(53,296)	3,882	237	1,670	0	5,789
(\$52,716)	867	(76)	(211)	0	\$580

**Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
MAY 2021**

Schedule 4
Page 3 of 3

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	\$139,151	\$100,426	\$64,750	\$304,327
45	Billed S.C. DERP incremental rates by account (\$/account)	Input	1.00	3.67	99.50	
46	Billed S.C. DERP incremental revenue	Input	\$140,424	\$119,923	\$26,368	\$286,715
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	(1,273)	(\$19,497)	\$38,383	\$17,613
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	(\$1,273)	(\$19,497)	\$38,383	\$17,613

	Cumulative	Total Residential	Commercial	Industrial	Total
Cumulative (over) / under recovery					
Balance ending February 2021	\$173,595				
March 2021 - actual	164,763	(14,575)	(29,089)	\$34,832	(\$8,832)
April 2021 - actual	179,864	(2,281)	(20,080)	\$37,462	15,101
May 2021 - actual	197,477	(1,273)	(19,497)	38,383	17,613
June 2021 - forecast	236,133	17,675	12,756	8,225	38,656
July 2021 - forecast	281,931	20,941	15,113	9,744	45,798
August 2021 - forecast	329,098	21,567	15,565	10,035	47,167
September 2021 - forecast	379,106	22,866	16,502	10,640	50,008
October 2021 - forecast	431,407	23,914	17,259	11,128	52,301
November 2021 - forecast	483,475	23,808	17,182	11,078	52,068
December 2021 - forecast	533,910	23,061	16,643	10,731	50,435
January 2022 - forecast	572,196	17,506	12,634	8,146	38,286
February 2022 - forecast	610,952	17,721	12,789	8,246	38,756
March 2022 - forecast	652,567	19,028	13,733	8,854	41,615
April 2022 - forecast	695,562	19,659	14,188	9,148	42,995
May 2022 - forecast	739,650	20,159	14,549	9,380	44,088
June 2022 - forecast	\$782,514	19,599	14,145	9,120	\$42,864

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.

Under collections, or regulatory assets, are shown as positive amounts.

- _/1 Total residential billed fuel non-capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of 1.901 and RECD 5% discount.
- _/2 Total residential billed fuel capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of .532 and RECD 5% discount.
- _/3 Total residential billed environmental rate is a composite rate reflecting the 7/1/20 approved residential rate of .021 and RECD 5% discount.
- _/4 Total residential billed DERP avoided capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of .002 and RECD 5% discount.

**Duke Energy Progress
Fuel and Fuel Related Cost Report
MAY 2021**

Schedule 5
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Description	Mayo Steam	Roxboro Steam	Asheville CC/CT	Smith Energy Complex CC/CT	Sutton CC/CT	Lee CC	Blewett CT
Cost of Fuel Purchased (\$)							
Coal	\$127,749	\$6,803,759	-	-	-	-	-
Oil	295,977	394,565	-	-	-	-	-
Gas - CC	-	-	\$6,735,313	\$10,281,745	\$4,939,838	\$12,519,627	-
Gas - CT	-	-	138,492	6,627,429	173,566	-	-
Biogas	-	-	-	360,899	-	-	-
Total	\$423,726	\$7,198,324	\$6,873,805	\$17,270,073	\$5,113,404	\$12,519,627	-
Average Cost of Fuel Purchased (¢/MBTU)							
Coal	-	271.80	-	-	-	-	-
Oil	1,365.14	1,366.13	-	-	-	-	-
Gas - CC	-	-	467.35	343.67	853.33	391.86	-
Gas - CT	-	-	706.45	340.72	1,619.84	-	-
Biogas	-	-	-	2,828.58	-	-	-
Weighted Average	1,954.37	284.29	470.56	348.91	867.26	391.86	-
Cost of Fuel Burned (\$)							
Coal	\$8,756,976	\$12,419,897	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	463,980	413,085	-	-	-	-	\$36,113
Gas - CC	-	-	\$6,735,313	\$10,281,745	\$4,939,838	\$12,519,627	-
Gas - CT	-	-	138,492	6,627,429	173,566	-	-
Biogas	-	-	-	360,899	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	\$9,220,956	\$12,832,982	\$6,873,805	\$17,270,073	\$5,113,404	\$12,519,627	\$36,113
Average Cost of Fuel Burned (¢/MBTU)							
Coal	369.79	323.91	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	1,293.36	1,300.36	-	-	-	-	1,683.59
Gas - CC	-	-	467.35	343.67	853.33	391.86	-
Gas - CT	-	-	706.45	340.72	1,619.84	-	-
Biogas	-	-	-	2,828.58	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	383.57	331.94	470.56	348.91	867.26	391.86	1,683.59
Average Cost of Generation (¢/kWh)							
Coal	4.29	4.94	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	14.99	321.76	-	-	-	-	45.71
Gas - CC	-	-	3.16	1.74	6.01	2.92	-
Gas - CT	-	-	20.98	10.65	18.91	-	-
Biogas	-	-	-	16.57	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	4.45	5.10	3.21	2.64	6.15	2.92	45.71
Burned MBTU's							
Coal	2,368,109	3,834,311	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	35,874	31,767	-	-	-	-	2,145
Gas - CC	-	-	1,441,160	2,991,773	578,888	3,194,898	-
Gas - CT	-	-	19,604	1,945,149	10,715	-	-
Biogas	-	-	-	12,759	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	2,403,983	3,866,078	1,460,764	4,949,681	589,603	3,194,898	2,145
Net Generation (mWh)							
Coal	204,305	251,567	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	3,095	128	-	-	-	-	79
Gas - CC	-	-	213,405	590,971	82,252	429,124	-
Gas - CT	-	-	660	62,214	918	-	-
Biogas	-	-	-	2,178	-	-	-
Nuclear	-	-	-	-	-	-	-
Hydro (Total System)	-	-	-	-	-	-	-
Solar (Total System)	-	-	-	-	-	-	-
Total	207,400	251,695	214,065	655,363	83,170	429,124	79
Cost of Reagents Consumed (\$)							
Ammonia	\$56,429	\$106,624	-	\$20,460	-	-	-
Limestone	348,941	421,572	-	-	-	-	-
Re-emission Chemical	-	-	-	-	-	-	-
Sorbents	173,662	121,352	-	-	-	-	-
Urea	-	-	-	-	-	-	-
Total	\$579,032	\$649,548	-	\$20,460	-	-	-

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

**Duke Energy Progress
Fuel and Fuel Related Cost Report
MAY 2021**

**Schedule 5
Page 2 of 2**

Description	Darlington CT	Wayne County CT	Weatherspoon CT	Brunswick Nuclear	Harris Nuclear	Robinson Nuclear	Current Month	Total 12 ME MAY 2021
Cost of Fuel Purchased (\$)								
Coal	-	-	-	-	-	-	\$6,931,508	\$232,751,819
Oil	-	-	-	-	-	-	690,542	6,731,582
Gas - CC	-	-	-	-	-	-	34,476,523	527,765,167
Gas - CT	(\$2,422)	\$658,014	\$24	-	-	-	7,595,103	62,831,538
Biogas	-	-	-	-	-	-	360,899	4,576,315
Total	(\$2,422)	\$658,014	\$24	-	-	-	\$50,054,575	\$834,656,421
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	276.91	345.87
Oil	-	-	-	-	-	-	1,365.71	1,319.72
Gas - CC	-	-	-	-	-	-	420.10	377.27
Gas - CT	-	330.54	-	-	-	-	349.27	333.87
Biogas	-	-	-	-	-	-	2,828.58	2,820.99
Weighted Average	-	330.54	-	-	-	-	386.59	368.21
Cost of Fuel Burned (\$)								
Coal	-	-	-	-	-	-	\$21,176,873	\$330,968,429
Oil - CC	-	-	-	-	-	-	-	4,394
Oil - Steam/CT	-	\$12,068	\$59,410	-	-	-	984,656	14,713,802
Gas - CC	-	-	-	-	-	-	34,476,523	527,765,167
Gas - CT	(\$2,422)	658,014	24	-	-	-	7,595,103	62,831,538
Biogas	-	-	-	-	-	-	360,899	4,576,315
Nuclear	-	-	-	\$6,349,567	\$2,348,644	\$3,433,511	12,131,722	167,384,756
Total	(\$2,422)	\$670,082	\$59,434	\$6,349,567	\$2,348,644	\$3,433,511	\$76,725,776	\$1,108,244,401
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	341.43	356.87
Oil - CC	-	-	-	-	-	-	-	1,574.91
Oil - Steam/CT	-	1,738.90	1,590.63	-	-	-	1,326.76	1,489.02
Gas - CC	-	-	-	-	-	-	420.10	377.27
Gas - CT	-	330.54	-	-	-	-	349.27	333.87
Biogas	-	-	-	-	-	-	2,828.58	2,820.99
Nuclear	-	-	-	54.30	61.11	57.90	56.51	56.44
Weighted Average	-	335.44	1,591.27	54.30	61.11	57.90	201.18	201.81
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	4.65	4.13
Oil - CC	-	-	-	-	-	-	-	15.85
Oil - Steam/CT	-	-	43.36	-	-	-	29.14	25.85
Gas - CC	-	-	-	-	-	-	2.62	2.67
Gas - CT	-	3.88	-	-	-	-	9.42	3.99
Biogas	-	-	-	-	-	-	16.57	20.20
Nuclear	-	-	-	0.57	0.64	0.59	0.59	0.59
Weighted Average	-	3.96	43.38	0.57	0.64	0.59	1.92	1.88
Burned MBTU's								
Coal	-	-	-	-	-	-	6,202,420	92,742,517
Oil - CC	-	-	-	-	-	-	-	279
Oil - Steam/CT	-	694	3,735	-	-	-	74,215	988,156
Gas - CC	-	-	-	-	-	-	8,206,719	139,891,501
Gas - CT	-	199,070	-	-	-	-	2,174,538	18,819,283
Biogas	-	-	-	-	-	-	12,759	162,224
Nuclear	-	-	-	11,694,033	3,843,049	5,929,562	21,466,644	296,555,074
Total	-	199,764	3,735	11,694,033	3,843,049	5,929,562	38,137,295	549,159,034
Net Generation (mWh)								
Coal	-	-	-	-	-	-	455,872	8,006,634
Oil - CC	-	-	-	-	-	-	-	28
Oil - Steam/CT	-	(61)	137	-	-	-	3,379	56,919
Gas - CC	-	-	-	-	-	-	1,315,752	19,739,840
Gas - CT	(149)	16,968	-	-	-	-	80,611	1,576,194
Biogas	-	-	-	-	-	-	2,178	22,650
Nuclear	-	-	-	1,107,340	364,993	577,221	2,049,554	28,443,732
Hydro (Total System)	-	-	-	-	-	-	63,273	907,152
Solar (Total System)	-	-	-	-	-	-	27,013	249,274
Total	(149)	16,907	137	1,107,340	364,993	577,221	3,997,631	59,002,423
Cost of Reagents Consumed (\$)								
Ammonia	-	-	-	-	-	-	\$183,513	\$1,981,842
Limestone	-	-	-	-	-	-	770,513	8,627,183
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	-	-	295,014	3,541,465
Urea	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	\$1,249,040	\$14,150,490

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
MAY 2021

Schedule 6
Page 1 of 2

Description	Mayo	Roxboro	Asheville	Smith Energy Complex	Sutton	Lee	Blewett
Coal Data:							
Beginning balance	351,453	893,866	-	-	-	-	-
Tons received during period	-	98,095	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons burned during period	95,440	151,745	-	-	-	-	-
Ending balance	256,013	840,216	-	-	-	-	-
MBTUs per ton burned	24.81	25.27	-	-	-	-	-
Cost of ending inventory (\$/ton)	91.75	81.82	-	-	-	-	-
Oil Data:							
Beginning balance	299,740	387,360	4,476,350	6,659,092	2,450,460	-	719,375
Gallons received during period	157,112	209,287	-	-	-	-	-
Miscellaneous use and adjustments	(1,605)	-	-	-	-	-	-
Gallons burned during period	260,383	230,618	-	-	-	-	15,264
Ending balance	194,864	366,029	4,476,350	6,659,092	2,450,460	-	704,111
Cost of ending inventory (\$/gal)	1.78	1.79	2.15	2.33	2.80	-	2.37
Natural Gas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	1,411,056	4,793,156	570,723	3,087,777	-
MCF burned during period	-	-	1,411,056	4,793,156	570,723	3,087,777	-
Ending balance	-	-	-	-	-	-	-
Biogas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	-	12,332	-	-	-
MCF burned during period	-	-	-	12,332	-	-	-
Ending balance	-	-	-	-	-	-	-
Limestone/Lime Data:							
Beginning balance	20,738	77,314	-	-	-	-	-
Tons received during period	2,315	(2,046)	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons consumed during period	6,776	6,315	-	-	-	-	-
Ending balance	16,277	68,953	-	-	-	-	-
Cost of ending inventory (\$/ton)	51.09	63.33	-	-	-	-	-

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Gas is burned as received; therefore, inventory balances are not maintained.

The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

Schedule 7

DUKE ENERGY PROGRESS
ANALYSIS OF COAL PURCHASED
MAY 2021

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
MAYO	SPOT	-	\$ (5,628)	-
	CONTRACT	-	-	-
	FIXED TRANSPORTATION/ADJUSTMENTS	-	133,377	-
	TOTAL	-	\$ 127,749	-
ROXBORO	SPOT	-	-	-
	CONTRACT	98,095	\$ 5,994,490	61.11
	FIXED TRANSPORTATION/ADJUSTMENTS	-	809,269	-
	TOTAL	98,095	\$ 6,803,759	\$ 69.36
ALL PLANTS	SPOT	-	\$ (5,628)	-
	CONTRACT	98,095	5,994,490	61.11
	FIXED TRANSPORTATION/ADJUSTMENTS	-	942,646	-
	TOTAL	98,095	\$ 6,931,508	\$ 70.66

Schedule 8

DUKE ENERGY PROGRESS
ANALYSIS OF COAL QUALITY RECEIVED
MAY 2021

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
MAYO	-	-	-	-
ROXBORO	6.63	8.59	12,759	1.78

**DUKE ENERGY PROGRESS
ANALYSIS OF OIL PURCHASED
MAY 2021**

	MAYO	ROXBORO
VENDOR	Greensboro Tank Farm	Greensboro Tank Farm
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	157,112	209,287
TOTAL DELIVERED COST	\$ 295,977	\$ 394,565
DELIVERED COST/GALLON	\$ 1.88	\$ 1.89
BTU/GALLON	138,000	138,000

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
June, 2020 - May, 2021
Nuclear Units

<u>Unit Name</u>	<u>Net Generation (mWh)</u>	<u>Capacity Rating (mW)</u>	<u>Capacity Factor (%)</u>	<u>Equivalent Availability (%)</u>
Brunswick 1	7,348,217	938	89.43	87.61
Brunswick 2	7,321,423	932	89.68	89.66
Harris 1	7,753,462	964	91.82	90.28
Robinson 2	6,020,630	759	90.55	89.63

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
June, 2020 through May, 2021
Combined Cycle Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	891,280	225	45.22	59.11
Lee Energy Complex	1B	807,600	227	40.61	53.62
Lee Energy Complex	1C	992,914	228	49.71	64.59
Lee Energy Complex	ST1	1,832,228	379	55.19	75.16
Lee Energy Complex	Block Total	4,524,022	1,059	48.77	64.86
Smith Energy Complex	7	1,076,782	194	63.50	77.03
Smith Energy Complex	8	1,048,336	194	61.82	76.57
Smith Energy Complex	ST4	1,235,076	183	77.12	83.76
Smith Energy Complex	9	1,317,264	216	69.75	83.26
Smith Energy Complex	10	1,340,430	216	70.98	84.22
Smith Energy Complex	ST5	1,728,219	250	79.02	93.31
Smith Energy Complex	Block Total	7,746,107	1,251	70.69	83.50
Sutton Energy Complex	1A	1,242,012	224	63.30	77.80
Sutton Energy Complex	1B	1,248,650	224	63.63	78.09
Sutton Energy Complex	ST1	1,535,947	271	64.70	87.98
Sutton Energy Complex	Block Total	4,026,609	719	63.93	81.73
Asheville CC	ACC CT5	1,071,220	191	64.19	83.15
Asheville CC	ACC CT7	1,239,550	191	74.28	79.42
Asheville CC	ACC ST6	530,567	90	67.30	68.41
Asheville CC	ACC ST8	624,443	90	79.20	83.51
Asheville CC	Block Total	3,465,780	561	70.53	79.60

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
June, 2020 through May, 2021**

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,304,569	732	20.33	38.21
Roxboro 2	2,186,164	673	37.08	76.57
Roxboro 3	2,368,991	698	38.74	73.74
Roxboro 4	1,309,880	711	21.03	57.56

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
June, 2020 through May, 2021
Other Cycling Steam Units**

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Roxboro 1	851,296	380	25.57	90.13

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
June, 2020 through May, 2021
Combustion Turbine Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	92,778	355	93.05
Blewett CT	45	68	77.64
Darlington CT	2,029	265	87.45
Smith Energy Complex CT	1,152,054	945	86.79
Sutton Fast Start CT	36,935	98	93.09
Wayne County CT	334,676	961	94.11
Weatherspoon CT	330	164	98.34

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data**

SCHEDULE 10
PAGE 6 of 6

**Twelve Month Summary
June, 2020 through May, 2021
Hydroelectric Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	88,855	27.0	50.23
Marshall	-228	4.0	41.96
Tillery	308,287	84.4	89.59
Walters	510,238	113.0	63.83

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.